

150 Motor Parkway | Suite 410 | Hauppauge, NY 11788 • TEL: 800-283-3888
email: weanchor@h-b.com | www.diedrichtechnologies.com

ENVIRESTORE 100™ GEL

1. PRODUCT DATA

Product Name: Envirestore 100™ Gel

Producer: Diedrich Technologies,
A Hohmann & Barnard Company,
150 Motor Parkway, Suite 410, Hauppauge, NY 11788

Company Contact: Jonathon Byrge

Telephone: 800-283-3888

24-Hour Emergency Contact: CHEMTREC 800-424-9300

This product is manufactured for Commercial/Industrial use. Not recommended for: Household use.

2. HAZARDS IDENTIFICATION

GHS Ratings:

Inhalation Toxicity: Acute 1

Gases≤100ppm, Vapors≤0.5mg/l, Dusts &
mists≤0.05mg/l

Skin corrosive: 1A

Destruction of dermal tissue: Exposure < 3 min.
Observation <1 hour, visible necrosis in at least one animal

Eye corrosive: 1

Serious eye damage: Irreversible damage 21 days after
exposure, Draize score: Corneal opacity ≥3, Iritis >1.5

Respiratory sensitizer: 1

Respiratory sensitizer

Carcinogen: 1B

Presumed Human Carcinogen, Based on demonstrated
animal carcinogenicity

Reproductive toxin: 2

Human or animal evidence possibly with other information

GHS Hazards

- H303** May be harmful if swallowed
- H314** Causes severe skin burns and eye damage
- H318** Causes serious eye damage
- H330** Fatal if inhaled
- H334** May cause allergy or asthma symptoms or
breathing difficulties if inhaled
- H350** May cause cancer
- H361** Suspected of damaging fertility or the unborn child

GHS Precautions

- P201** Obtain special instructions before use
- P202** Do not handle until all safety precautions have
been read and understood
- P260** Do not breathe dust/fume/gas/mist/vapors/spray
- P261** Avoid breathing dust/fume/gas/mist/vapors/spray
- P264** Wash hands thoroughly after handling
- P271** Use only outdoors or in a well-ventilated area
- P280** Wear protective gloves/protective clothing/eye
protection/face protection
- P281** Use personal protective equipment as required
- P284** Wear respiratory protection
- P285** In case of inadequate ventilation wear respiratory
protection
- P310** Immediately call a POISON CENTER or doctor/
physician
- P320** Specific treatment is urgent (see Section 4)
- P321** Specific treatment (see Section 4)
- P363** Wash contaminated clothing before reuse
- P304+P340**
IF INHALED: Remove victim to fresh air and keep
at rest in a position comfortable for breathing
- P304+P341**
IF INHALED: If breathing is difficult, remove
victim to fresh air and keep at rest in a position
comfortable for breathing
- P308+P313**
IF exposed or concerned: Get medical
advice/attention
- P342+P311**
Call a POISON CENTER or doctor/physician
- P301+P330+P331**
IF SWALLOWED: Rinse mouth. Do NOT
induce vomiting
- P303+P361+P353**
IF ON SKIN (or hair): Remove/Take off
immediately all contaminated clothing. Rinse skin
with water/shower
- P305+P351+P338**
IF IN EYES: Rinse continuously with water
for several minutes. Remove contact lenses if
present and easy to do - continue rinsing
- P405** Store locked up

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P403+P233

Store in a well ventilated place. Keep container tightly closed

P501 Dispose of contents/container to appropriate waste site or reclaimer in accordance with local and national regulations

Danger

Hazards Not Otherwise Classified: None

3. COMPOSITION

Chemical Name	CAS number	Weight Concentration %
Phosphoric acid	7664-38-2	14.00%
Citric Acid	77-92-9	10.00%
Glycolic Acid	79-14-1	9.00%
Ammonium bifluoride	1341-49-7	4.00%
Diethylene glycol monobutyl ether	112-34-5	2.00%
Sulfuric acid	7664-93-9	2.00%

4. FIRST AID

Inhalation: Remove from further exposure. For those providing assistance, avoid exposure to yourself. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, a trained individual should attempt to resuscitate while getting immediate medical aid.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.

Skin Contact: In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

Ingestion: If conscious, give 2 to 3 glasses of water. Do not induce vomiting and seek medical attention immediately.

Notes to Physician: No data found.

5. FIRE FIGHTING MEASURES

Flammable Limits: LEL&UEL- No data found.

Flash Point: No data available.

Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Unusual Fire or Explosion Hazards: No data available.

Hazardous Combustion Products: See Section 10 for a list of hazardous decomposition products for this mixture.

Fire Fighting: If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

Fire Fighting: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop leak if you can do it without risk, stay upwind, and avoid run off to waterways and sewers.

SMALL SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas. Dike to collect large liquid spills, collect leaking liquid in sealable compatible containers.

ACID SPILLS: Neutralize with Soda Ash, (Sodium Carbonate) Hydrated Lime, (Calcium Hydroxide) or Baking Soda (Sodium Bicarbonate). Cautiously neutralize remainder. Then wash away with plenty of water.

7. HANDLING AND STORAGE

Handling Precautions: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containment closed when not in use. Do not handle or store material near heat, sparks, or open flames, or other sources of ignition.

Storage: Prevent from freezing. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

Regulatory Requirements: No data found

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8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Chemical Name/CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Phosphoric acid 7664-38-2	1 mg/m3 TWA	3 mg/m3 STEL 1 mg/m3 TWA	NIOSH: 1 mg/m3 TWA 3 mg/m3 STEL
Citric Acid 77-92-9	Not Established	Not Established	Not Established
Glycolic Acid 79-14-1	Not Established	Not Established	Not Established
Ammonium bifluoride 1341-49-7	Not Established	Not Established	Not Established
Diethylene glycol monobutyl ether 112-34-5	Not Established	10 ppm TWA (inhalable fraction and vapor)	Not Established
Sulfuric acid 7664-93-9	1 mg/m3 TWA	0.2 mg/m3 TWA (thoracic fraction)	NIOSH: 1 mg/m3 TWA

Engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

Ventilation Control: Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.

Administrative controls: No data found.

Personal Protection: As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee.

Eye Protection: Normal industrial eye protection practices should be employed.

Skin Protection: In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory: If airborne concentration limits are not met, an approved respirator must be worn.

Contaminated Equipment: Dispose of the waste in compliance with federal, state, regional, and local regulations

9. PHYSICAL AND CHEMICAL PROPERTIES

Decomposition temperature: Not Determined

Viscosity: Not Determined

Density: 1.21

Melting point: Not Determined

Freezing point: Not Determined

Solubility: Complete

Boiling range: 100°C

Flash point: 999°C, 999°F

Evaporation rate: Not Determined

Flammable Limits: LEL & UEL – N/A

Appearance: Clear, Colorless Gel

Odor: Pungent

Physical State: Liquid

Vapor Pressure: Not Determined

Odor threshold: Not Determined

Vapor Density: Not Determined

pH: Strong Acid <1

Explosive Limits: N/A

Partition coefficient (n-Octanol/water): Not Determined

Autoignition temperature: 228°C

Weight Per Gallon: 8.3 lbs

10. STABILITY AND REACTIVITY

Stability: STABLE

Incompatibilities: Avoid contact with strong bases.

Hazardous Decomposition Products:

Note: these are all possible decomposition products based on molecular structure of components:

Oxides of Carbon

Oxides of Sulfur

Oxides of Phosphorus

Hydrogen or Hydrogen Fluoride

Oxides of Nitrogen or Ammonia

Hazardous polymerization: will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity: LD50: 2,334mg/kg

Inhalation Toxicity: LC50: 0mg/L

Component Toxicity

7664-38-2 Phosphoric acid

Oral LD50: 1,530 mg/kg (Rat)

Dermal LD50: 2,730 mg/kg (Rabbit)

1341-49-7 Ammonium bifluoride

Oral LD50: 130 mg/kg (Rat)

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112-34-5 Diethylene glycol monobutyl ether
Oral LD50: 3,384 mg/kg (Rat)
Dermal LD50: 2,700 mg/kg; (Rabbit)

7664-93-9 Sulfuric acid
Oral LD50: 2,140 mg/kg (Rat)
Inhalation LC50: 510 mg/m3 (Rat)

Carcinogen Rating

7664-93-9 Sulfuric acid 2% by weight
IARC: Human carcinogen
OSHA: listed

Routes of entry: No data found.

Target Organs: Eyes, Skin, Respiratory System

Effects of Overexposure: Causes severe skin burns and eye damage

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available for this product.

Component Ecotoxicity

Citric Acid
96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]

Glycolic Acid
96 Hr LC50 Brachydanio rerio: >5000 mg/L [static]

Diethylene glycol monobutyl ether
96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]
48 Hr EC50 Daphnia magna: >100 mg/L
96 Hr EC50 Desmodesmus subspicatus: >100 mg/L

Sulfuric acid
96 Hr LC50 Brachydanio rerio: >500 mg/L [static]

13. DISPOSAL

Refer to the latest federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

The following is for US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

Agency	Proper Shipping Name	UN Number	Packaging Group	Hazard Class
US DOT	Corrosive Liquid NOS (Phosphoric Acid Glycolic Acid)	UN1760	II	8

15. REGULATORY INFORMATION

This listing is to highlight federal level regulation of the product. Individual states, and other nations may have further regulations not listed below.

US DOT List of Marine Pollutants (172.101 - Appendix B)
None

US DOT List of Hazardous Substances and Reportable Quantities (172.101 Appendix A)

7664-38-2 Phosphoric acid 14 %
1341-49-7 Ammonium bifluoride 4 %
7664-93-9 Sulfuric acid 2 %

US DOT List of Severe Marine Pollutants
(172.101 - Appendix B)
None

SARA Section 302 Extremely Hazardous Substances
(40 CFR 355):
7664-93-9 Sulfuric acid 2 %

Sara Section 302 Threshold Planning Quantity.
7664-93-9 Sulfuric acid 2 %

SARA Section 313, Toxic Chemicals (40 CFR 372.65):
7664-93-9 Sulfuric acid 2 %

SARA Reportable Quantity.
7664-38-2 Phosphoric acid 14 %
1341-49-7 Ammonium bifluoride 4 %
7664-93-9 Sulfuric acid 2 %

Toxic Substances Control Act (TSCA):
All components are listed or exempt from the Toxic Substances Control Act except those listed below.

None

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1985 (SARA):

This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

7664-93-9 Sulfuric acid 2.0%

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16. OTHER INFORMATION

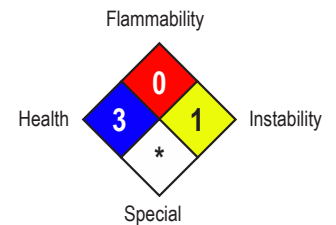
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Hazardous Material Information System (HMIS)

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	D

National Fire Protection Association (NFPA)



HMIS & NFPA Hazard Rating Legend

* = CHRONIC HEALTH HAZARD
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

LEGEND

0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME

N.D. = NOT DETERMINED N.A. = NOT AVAILABLE N/A = NOT APPLICABLE

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